ENVIRONMENTAL CHEMISTS

Date of Report: 02/28/02 Date Received: 02/14/02

Project: Hydro Tank Test, PO#M87498

Date Extracted: 02/21/02 Date Analyzed: 02/21/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Chromium Copper Nickel	<u>Zinc</u>
Laboratory ID	
M87498 <0.05 1.1 27	3.7
202090-01	
Method Blank <0.05 <0.05 <0.05	<0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 02/28/02 Date Received: 02/14/02

Project: Hydro Tank Test, PO#M87498

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 202039-01 (Duplicate)

		All Santage		Relative	
Finish Gilberill (†	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.16	0.18	12	0-20
Copper	mg/L (ppm)	0.34	0.32	6	0-20
Nickel	mg/L (ppm)	0.12	0.17	34 a	0-20
Zinc	mg/L (ppm)	0.07	< 0.05	nm	0-20

Laboratory Code: 202039-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recovery	% Recovery	Acceptance	e RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	0.16	94	98	80-120	4
Copper	mg/L (ppm)	2	0.34	92	92	80-120	0
Nickel	mg/L (ppm)	4	0.12	93	94	80-120	1
Zinc	mg/L (ppm)	2	0.07	95	98	80-120	3

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recov	ery A	cceptance	e RPD
Analyte	Units	Level	LCS	LCSI)	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	108	107		80-120	1
Copper	mg/L (ppm)	2	104	104		80-120	0
Nickel	mg/L (ppm)	4	106	105		80-120	1
Zinc	mg/L (ppm)	2	107	107		80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

DUPLICATE COPY

INVOICE #02ACU0228-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Hydro Tank Test, PO#M87498 - Results of testing requested by Gerry Thompson for material submitted on February 14, 2002.

FEDERAL TAX ID #(b) (6)

end Report To Sk ompany ACASK ddress 628 S. ity, State, ZIP SEA	JN HAN	Effer Sec	LWX St	PROJECT STATE	ERS kigno CT NAMEA LANG KS	NO.				1	— PO≠		[C	T Stan RUS Rush c	URN/ dard (H harge	of
hone # 206-382-83	99 Fax	# <u>206-3</u>	82-4 3 09			ı			ANIA	I VC	ES REG	MIFOT		Retu	rn saı	ter 30 days mples with instructions
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	 8270	HFS	CC(W, W) 22	COESI	EU			Notes
n 87498	0	2/14/02	Rico	HO	1											
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*																
*																

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Reliandished by:	GERACO Thompson	Acw	2/4/02	11:00
Received of Conf	Muchal Edehl	P:Bi-c	2/4/02	12:6UA
Relinquished by:				
Received by:				

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 14, 2002 from your Hydro Tank Test, PO#M87498 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0228R.DOC